

Project Name: BRUCEDALE/LADYSMITH/GRIGGWARD - Soil Landscape Modelling
Project Code: Wagga_SLM **Site ID:** BD45 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	McKane, Dermot	Locality:	
Date Desc.:	15/07/93	Elevation:	262 metres
Map Ref.:	Sheet No. : 8327 DGPS	Rainfall:	No Data
Northing/Long.:	6123717 AMG zone: 55	Runoff:	No Data
Easting/Lat.:	540471 Datum: AGD66	Drainage:	No Data

Geology

ExposureType:	Undisturbed soil core	Conf. Sub. is Parent. Mat.:	Probable
Geol. Ref.:	No Data	Substrate Material:	Granite

Land Form

Rel/Slope Class:	No Data	Pattern Type:	No Data
Morph. Type:	No Data	Relief:	No Data
Elem. Type:	No Data	Slope Category:	No Data
Slope:	3 %	Aspect:	225 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Mottled Eutrophic Yellow Dermosol Medium Non-gravelly Clay-loamy Clayey Very deep		Principal Profile Form:	N/A
ASC Confidence:		Great Soil Group:	N/A
Confidence level not specified			

Site Disturbance:

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.09 m	Dark reddish brown (5YR3/3-Moist); ; Clay loam; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Firm consistence; Many, very fine (0-1mm) roots; Clear change to -
A3	0.09 - 0.27 m	Reddish brown (5YR4/4-Moist); ; Clay loam; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Firm consistence; Common, very fine (0-1mm) roots; Clear change to -
B1	0.27 - 0.7 m	Strong brown (7.5YR5/8-Moist); Mottles, 10-20% , Distinct; Light clay; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Firm consistence; 0-2%, fine gravelly, 2-6mm, subrounded, stratified, Quartz, coarse fragments; 0-2%, medium gravelly, 6-20mm, subrounded, stratified, coarse fragments; Few, very fine (0-1mm) roots; Clear change to -
B21	0.7 - 1.85 m	Brownish yellow (10YR6/8-Moist); Mottles, 10-20% , Distinct; Mottles, 10-20% , Distinct; Light medium clay; Strong grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Firm consistence; 2-10%, fine gravelly, 2-6mm, subrounded, stratified, coarse fragments; Few (2 - 10 %), Manganiferous, , ; Clear change to -

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.09	4.44A	0.233A	1.7J	0.48	0.67	0		5.9I		0.00
0.09 - 0.27	5.26A	0.037A	2.6J	0.71	0.51	0.02		6.6I		0.30
0.27 - 0.7	5.78A	0.048A	4.3J	1.8	0.21	0.06		8.3I		0.72
0.7 - 1.85	5.84A	0.109A	5.9J	5.8	0.67	0.29		14.5I		2.00

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.09		2.31C							26.2I		24.5	49.3
0.09 - 0.27		0.71C							36.1I		19.5	44.4
0.27 - 0.7		0.47C							43I		18.1	38.9
0.7 - 1.85		0.38C							64.8I		13.5	21.7

Depth	COLE	Sat.	Gravimetric/Volumetric Water Contents	K sat	K unsat
m			0.05 Bar 0.1 Bar 0.5 Bar 1 Bar 5 Bar 15 Bar	mm/h	mm/h
			g/g - m3/m3		
0 - 0.09					
0.09 - 0.27					
0.27 - 0.7					
0.7 - 1.85					

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Laboratory Analyses Completed for this profile

15F1_CA	Exchangeable bases by 0.01M silver-thiourea (AgTU)+, no pretreatment for soluble salts
15F1_K	Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts
15F1_MG	Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts
15F1_NA	Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts
15F3	CEC by 0.01M silver-thiourea (AgTU)+
15L1	Base saturation percentage (BSP)
15N1	Exchangeable sodium percentage (ESP)
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
6B3	Total organic carbon - high frequency induction furnace, infrared
P10_NR_C	Clay (%) - Not recorded
P10_NR_S	Sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded